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APPLICATION NO.	FILING DATE	EIDOTAL	Alexandria, Vinginia 22313-14. www.uspto.gov	50
10/082,984	02/25/2002	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
WARE FRESS	REEN BUILDING 5	Yukinobu Konishi	542-007-3	7004
BRADFORD G			EXAMINER WANG, GEORGE Y ART UNIT PAPER NUMBER	
			2871 DATE MAILED: 05/29/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	10/082,984	KONISHI ET AL.	()
- Cariniary	Examiner	Art Unit	
The MAILING DATE of this community	George Y. Wang	2074	=
The MAILING DATE of this communication app Period for Reply A SHORTENED STATUTORY	pears on the cover sheet with	th the correspondence add-	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing of the status Status	Y IS SET TO EXPIRE 3 MC	ONTH(S) FROM	
		lely filed, may reduce any	
to continunication(s) filed on			
20) Inis action is FINAL. 26) This			
3) Since this application is in condition for allowan closed in accordance with the practice under Exposition of Claims		rs, prosecution as to the me	rits is
4) Claim(s) 1-6 is/are pending in the application.		11, 400 O.G. 273,	
4a) Of the above claim(s)			
4a) Of the above claim(s) is/are withdrawn 5) Claim(s) is/are allowed.	from consideration.		
6) Claim(s) 1-6 is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to react to			
8) Claim(s) are subject to restriction and/or ele	ection requirement.		
9)⊠ The specification is objected to by the 5			
10) The drawing(s) filed on <u>25 February 2002</u> is/are: a) Applicant may not request that any objection to the drawing.			
Applicant may not request that any objection to the	☐ accepted or b)☒ objected	to by the Examiner.	
Applicant may not request that any objection to the dra 11) The proposed drawing correction filed onis:	wing(s) be held in abeyance.	See 37 CFR 1.85(a).	
If approved, corrected drawings	approved b) disapp	proved by the Examiner.	
12) The path or declaration is objected to by the Time	this Office action.	•	
13 U.S.C. §§ 119 and 120			
3) Acknowledgment is made of a claim for the			1
3) Acknowledgment is made of a claim for foreign prior a) All b) Some * c) None of:	rity under 35 U.S.C. § 119((a)-(d) or (f).	
1. Certified copies of the priority of		, , , , , , , , , , , , , , , , , , , ,	1
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* See the attached detailed Office action for a list of the Acknowledgment is made of a claim for demost	Certified conies not receive		
a) The translation of the foreign language provisional Acknowledgment is made of a claim for domestic priori	al application has been	३) (to a provisional application	on).
Acknowledgment is made of a claim for domestic priori	ity under 35 U.S.C. 88 120	eived.	
Nave and	- 5.5.5. 33 120	and/or 121.	
Notice of References Cited (DTC			1
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) nformation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summary 5) Notice of Informal D	(PTO-413) Paper No(s) atent Application (PTO-152)	

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DETAILED ACTION

Drawings

1. Figures 4-8 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 4. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujihara et al (U.S. Patent No. 5,771,083, from hereinafter "Fujihara") in view of Ellis (U.S. Patent No. 5,546,204).
- As to claim 1, Fujihara discloses a liquid crystal display (LCD) having a TFT substrate (fig. 1, ref. 8) and a counter substrate (fig. 2, ref. 1) with liquid crystal layer (col. 1, lines 41-43), where the TFT array substrate has a display area and a terminal forming area such that the display area has a pixel electrode (fig. 1, ref. 5), a switching element (fig. 1, ref. 8), a gate line (fig. 1, ref. 2) and a source line (fig. 1, ref. 3) while the terminal forming area has a terminal electrode for connecting to the gate or source line to an external signal source. Furthermore, the first metallic line and the second metallic line are both connected to the terminal electrode via respective contact holes (fig. 2, ref. 13) arranged below the terminal electrode, and an insulating layer (fig. 2, ref. 9) is interposed between the first metallic line and the second metallic line.

However, the reference fails to specifically disclose a liquid crystal layer interposed between the TFT substrate and counter substrate.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have positioned the liquid crystal layer between the two

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substrate layers since one would recognize that as well known (Fujimara, col.1, lines 41-43). Furthermore, Ellis discloses a TFT matrix LCD with a liquid crystal layer between a TFT substrate and counter substrate (col. 2, lines 7-21; fig. 5), which provides a normalized viewing pixel, ultimately improving aperture ratio and increasing display reliability (col. 2, line 64 – col. 3, line 3).

6. Regarding claims 2-6, Fujihara discloses the LCD device as recited above where the first metallic line is made from the same layer as the source line and the second metallic layer is made from the same layer as the gate line, such that the first metallic line is connected to the source line and the second metallic line is lower than the first metallic line (fig. 2 and 3).

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Y. Wang whose telephone number is 703-305-7242. The examiner can normally be reached on M-F, 8 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 703-305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

gw GW

May 16, 2003

SUPERIOR ST. Manager St. TEG. Manager St. Manager St.